



Attorney Docket No.: 4324.224-US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Hansen et al.

Confirmation No: 2312

Serial No.: 09/467,368

Group Art Unit: 1652

Filed: December 21, 1999

Examiner: Rao, M

For: Animal Feed Additives

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B.G.
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PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, DC 20231

Sir:

Please amend the above-identified application as follows:

IN THE CLAIMS:

Please cancel claims 19-29 without prejudice or disclaimer. Please add new claims 30-53:

30. An isolated xylanase having
- (a) a pH-optimum in the range of 4.5-7.5; and
 - (b) a residual xylanase activity after incubation for 60 minutes at pH 6.0 selected from one or more of:
 - (i) more than 96% residual activity when measured at 60°C,
 - (ii) more than 83% residual activity when measured at 65°C,
 - (iii) more than 20% residual activity when measured at 70°C, and
 - (iv) more than 10% residual activity when measured at 75°C.
31. The xylanase of claim 30, which is derived from a thermophilic fungus.
32. The xylanase of claim 31, wherein the thermophilic fungus is selected from the group consisting of *Byssoschlamus*, *Chaetomium*, *Humicola*, *Malbranchea*, *Mucor*, *Myceliophthora*, *Paecilomyces*, *Talaromyces*, *Thermoascus*, *Thermomyces* and *Thielavia*.
33. The xylanase of claim 31, wherein the thermophilic fungus is a *Pyrenomyces*.

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